

## **ABSTRACT OF THE DISCLOSURE**

A diffractive micro-structure color wavelength division  
5 device makes use of diffraction theory, binary optics theory, and  
operation of phase iteration algorithm to its complex  
two-dimensional surface phase micro-structure. The color  
wavelength division device has a multi-wavelength modulation  
function and is capable of wavelength division and focus,  
10 thereby resulting in structural simplification and enhancement of  
light utilized efficiency of a color image system.